Claims

1. Method for the characteristic map-based obtention of values
for at least one control parameter of an installation,
particularly an internal combustion engine, whereby
- support points for the control parameter, each of which
provide a value for the control parameter, are defined across
a range of operational parameters within a characteristic map
in accordance with operational parameters of the installation,
- the range of operational parameters covered in said
characteristic map is divided into a first and a second
subdomain each of which comprises several of the support
points, and
- the value for the control parameter is obtained by
extrapolation when a boundary of the first subdomain is
reached before the value for the control parameter is obtained
by accessing support points of the second subdomain.

2. Method according to Claim 1, whereby, when a certain
distance from the last support point of the first subdomain is
reached, the value is obtained by extrapolation from support
points of the second subdomain.

3. Method according to one of the above claims, whereby, a
discrete operating mode of the installation is allocated to
each subdomain.

4. Method according to Claim 3 for an internal combustion
engine, which has fuel injected into combustion chambers,
whereby the discrete operating modes differ in the number of
injections per work cycle.

5. Method according to Claim 4, whereby the characteristic map
contains values of injection parameters in accordance with

speed and load of the internal combustion engine.

6. Method according to Claim 5, whereby the injection
parameters include injection quantity and/or injection angle.

5

7. Method according to one of the Claims 3 to 6, whereby a
change of operating mode is made when a certain operating
state is reached.